Title: 5 Ft. High Black Vinyl Coated, 6 Gauge-Schedule 40 Chain Link Fence and Maintenance Gates

### SCOPE OF SERVICES:

North Lake Community Park - 40730 Roger Giles Road, Umatilla, FL 32784

### 1.01 SCOPE OF SERVICES:

The contractor shall furnish all labor, equipment, materials, fuel and any other incidental costs, and supervision necessary for the installation and completion of a 5' high black vinyl coated 6 gauge-schedule 40 chain link fence and maintenance gates (as shown on drawings attached). All work and equipment shall be in strict compliance with the latest codes, standards and practices.

Work shall start no later than seven (10) days from the time notice to proceed is given to the contractor.

- The contractor shall obtain and pay for all permits, licenses and certificates and/or any required approvals of plans or specifications as may be required by local laws, ordinances, rules and regulations for the proper execution and completion of the work specified.
- During the progress of the work, the contractor shall keep the park free from accumulations of waste materials, and any other debris resulting from the work. At the completion of the work, the contractor shall remove all waste materials and the site shall be restored to good condition.
- Tie-wire, #6 W & M gauge aluminum ties @ 15" o.c. for rails. Ties to be 12" apart on posts. End of ties should be wound in a telegraph trust, 2 ½ turns. Fence 2" diamond mesh as manufactured by Master Halco/Anchor (800)229-5615, or approved equal. NOTE: Color to be vinyl coated black wire mesh and ties to be 6 gauge.
- The Contractor's installation, when completed, shall match existing 14' vinyl coated (Black) chain link fence.

### 1.02 GENERAL REQUIREMENTS:

- Contractor is to maintain all existing project perimeter fencing designated to remain.
- Investigate and verify all dimensions. Arrange the work and furnish materials to suit field dimensions.
- Approval of shop drawings required prior to fabrication.
- Proposals will be accepted only form those regularly engaged, for the past five years, in manufacture and installation of chain link fence as specified herein.
- Contractor to supply any and all materials needed to provide a complete and finished product.

1.03 LOCATION: All fencing to be installed is shown on plan. See drawing for location, extent of work and other requirements.

### 1.04 SUBMITTALS:

- Changes in specification may not be made after the bid date unless written approval is obtained from the Owner's Representative.
- Shop Drawings: Layout of fences with dimensions, details, and finishes of components, accessories and post foundations.
- Product Data: Manufacturer's catalogs cuts indicating material compliance and specified options.
- Samples: Submit color selections and samples of materials (eg. Ties and mesh)

### PART 2 – PRODUCTS

### 2.01 MANUFACTURER

- Products from qualified manufactures or approved equal having a minimum of five
  years experience manufacturing thermally fused chain link fencing will be acceptable by
  Owner's Representative as equal, approved in writing prior to bidding, and if they meet
  the following specifications for design, size gauge of metal parts and fabrication.
- Obtain chain link fences, including accessories, fitting, and fastenings from a single source.

### 2.02 CHAIN LINK FECE FABRIC

- PVC/Vinyl coating thermally fused to metallic coated steel core wire: ASTM 668 Class 2b,
   7 mil (0.17) thickness. Core wire tensile strength 75,000 psi (517 MPa) Black color.
- Size: Helically wound and woven to height as indicated on drawings and details.
- Fabric: Woven to height as indicated on drawings with 2" (50 mm) diamond mesh of 6 gauge core wire with a diameter of 0.192' (4.88 mm) and a breakload of 2170 lbs. (9650 N) Color black ASTM 934

### 2.03 STEEL FENCE FRAMING:

- Steel Pipe Type I: ASTM F 1083, standard weight schedule 40; minimum yield strength of 25,000 psi (170 MPa); sizes as indicated. Hot-dipped galvanized with minimum average 1.8 oz/ft. sq. (550 g/m sq.) of coated surface area.
- PVC/Vinyl coated finish: In accordance with ASTM F1043, apply supplemental color coating of 10 – 15 mils (2.54 – 0.38 mm) of thermally fused PVC/Vinyl color in black color.
- All fencing posts and rails per construction details or manufacture's written recommendations whichever is more stringent.
- See attached details B, C and D for additional information.

### 2.04 VINYL COATED ACCESSORIES:

- A. Chain Link Fence Accessories: ASTM F 626, Provide items required to complete fence system. Galvanize each ferrous metal item in accordance with ASTM A 153 and finished to match framing.
- B. Post Caps: Formed steel, cast malleable iron, or aluminum alloy weather tight closure cap for tubular posts. Provide one cap for each post (Where top rail is used, provide tops to permit passage of top rail.)
- C. Top Rail and Brace Ends: Pressed steel per ASTM F626, for connection of rail and brace to posts.
- D. Top Rail Sleeves: 7" (178 mm) expansion sleeve with spring, allowing for expansion and contraction of top rail.
- E. Wire Ties and Clips: 6 gauge [0.135" (3.43 mm)] galvanized steel wire for attachment of fabric to line posts. Double wrap 13 gauge [0.092" (2.324 mm)] for rails and braces. Hog ring ties of 12-1/2 gauge [0.0985" (2.502 mm)] for attachment of fabric to tension wire.
- F. Brace and Tension (stretcher bar) Bands: Pressed steel
- G. Tension (stretcher) Bars: One piece lengths equal to 2" (50mm) less than full height of fabric with a minimum cross-section of 3/16" x ¾" (4.76 mm x 19 mm) or equivalent fiberglass rod. Provide tension (stretcher) bars where chain link fabric meets terminal post.
- H. Nuts and bolts are galvanized but not vinyl coated. Prime and paint all nuts and bolts black to match vinyl coating using paint system compatible with galvanized finish (submit product data).
- I. Fence Tension Wire: Thermally fused vinyl (Permafused) applied to metallic coated steel wire, 7 gauge, [0.177" (4.5 mm)] diameter core wire with tensile strength of 75,000 psi (517 Mpa).
- J. Fence Truss Rods & Tightener: Steel rods with minimum diameter of 5/16" (7.9 mm). Capable of withstanding a tension of minimum 2,000 lbs.

### 2.05 SETTING MATERIALS

A. Concrete: Minimum 28 days compressive strength of 3,000 psi (20 Map)

### PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Verify areas to receive fencing are completed to final grades and elevations.
- B. Ensure property lines and legal boundaries of work are clearly established.

### 3.02 CHAIN LINK FENCE FRAMING INSTALLATION

- A. Install chain link fence in accordance with ASTM 567 and manufacturer's instructions.
- B. Concrete set all posts: Drill holes in firm, undisturbed or compacted soil. Holes should have a diameter 4 times greater than the outside of post, and depths approximately 3" (150 mm) deeper than post bottom. Excavate deeper as required for adequate support in soft and loose soil, and for posts with heavy lateral loads. Set post bottom 36" (900 mm) below surface when in firm, undisturbed soil. Place concrete around posts in a continuous pour. Trowel finish around post. Slope to direct water away from posts.
- C. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations.
- D. Rail: Install single lengths between posts.

### 3.03 CHAIN LINK FABRIC INSTALLATION

- A. Fabric: Install fabric on field side, and attach so that fabric remains in tension after pulling force is released. Leave approximately 1" (25 mm) between finish grade and bottom selvage. Attach fabric with wire ties or clips line posts at 15" (380 mm) on center and to rails, braces and tension wire at 24" (600 mm) on center.
- B. Tension (stretcher) Bar: Pull fabric taut; thread tension bars through fabric and attach to terminal posts with bands spaced max of 15" (380 mm) on center.

### 3.04 ACCESSORIES

- A. Tire Wires: Bend ends of wire to minimize hazard to persons and clothing.
- B. Fasteners: Install nuts on side of fence opposite fabric side for added security.

### 3.05 CLEANING

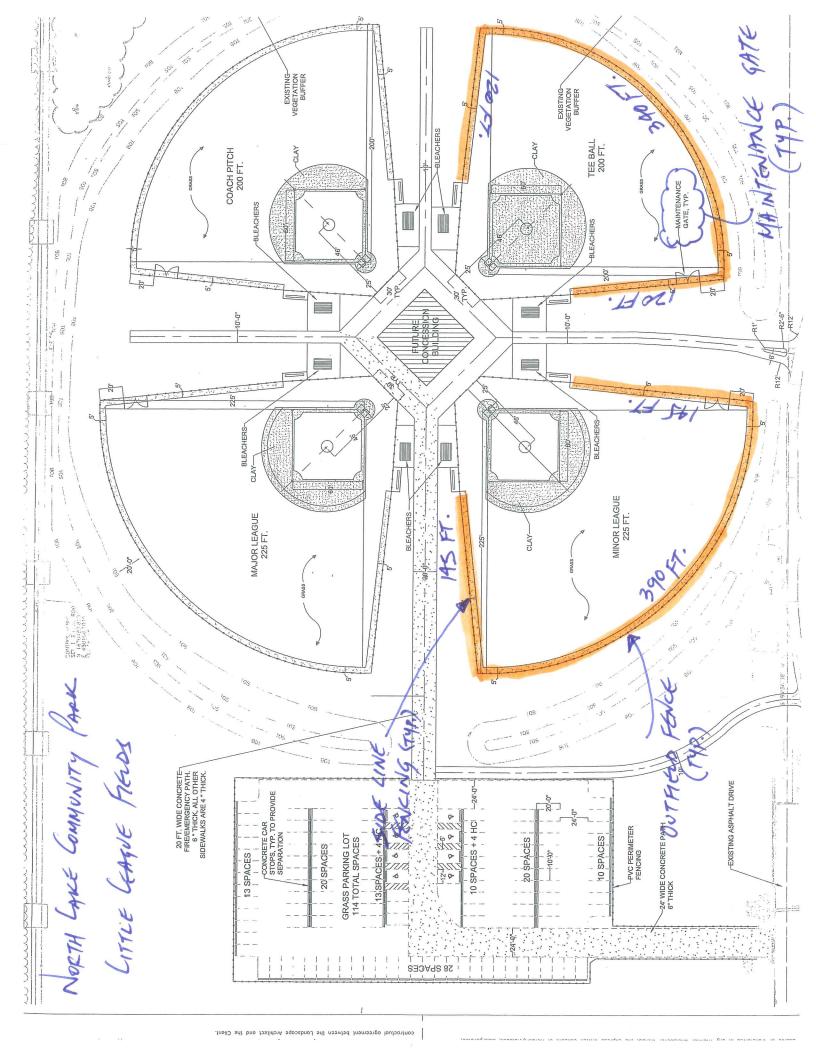
A. Clean up debris and unused material, and remove from the site.

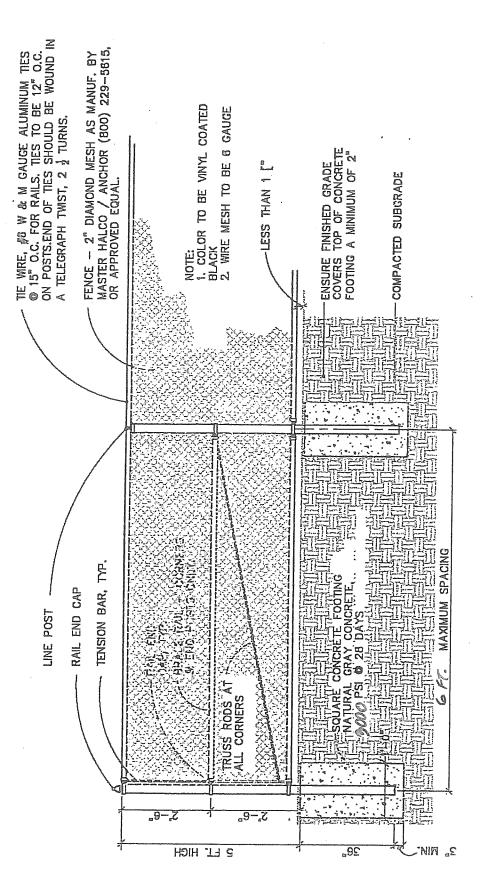




# NORTH LAKE COMMUNITY PARK

## SITE DIRECTORY

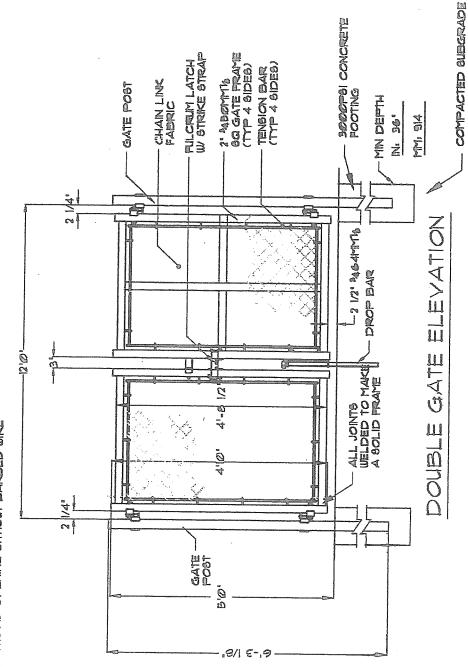




CHAIN LINK FENCE DETAIL



NOTE: GATE PROVIDED BY MASTER HALCO OR AFFROYED EQUAL, FHONE, 800-229-5615 DRAUING NO. 3-1000, DOUBLE GATE B' HTX 12' OFENING WITHOUT BANDED WINE



## DOUBLE SWING GATE

### FABRIC . WIDTHS

### PIPE SCHEDULE

20	·								
WIDTH OF TOP FABRIC	0		0	0	4,-0,,	4.4-0"	, e,-0 <sub>"</sub>	8,-0"	10,-0,1
WIDTH OF BOTTOM FABRIC	3'-6" - 4'-0"	<b>5'</b> -0"	8,-0,,	10-0"	8'-0"	10'-0"	10,-01	10'0"	10,-0;
NCE OF	B" - 4'-0"	S-0"	81-G!!	10,-011	12,-0"	14'-0"	16,-0"	18r-C"	20'-G"

:						-	
ACTUAL OUTSIDE DIAMETER	1,660	2,375	2.875	3,500	4.000	4,500	5,000
NOMINAL OUTSIDE DIAMETER	15/3"	2"	. 21/2"	3"	31/2"	4"	41/2"

### BOLT AND FABRIC NOTES

PEEN END OF ALL BOLTS.

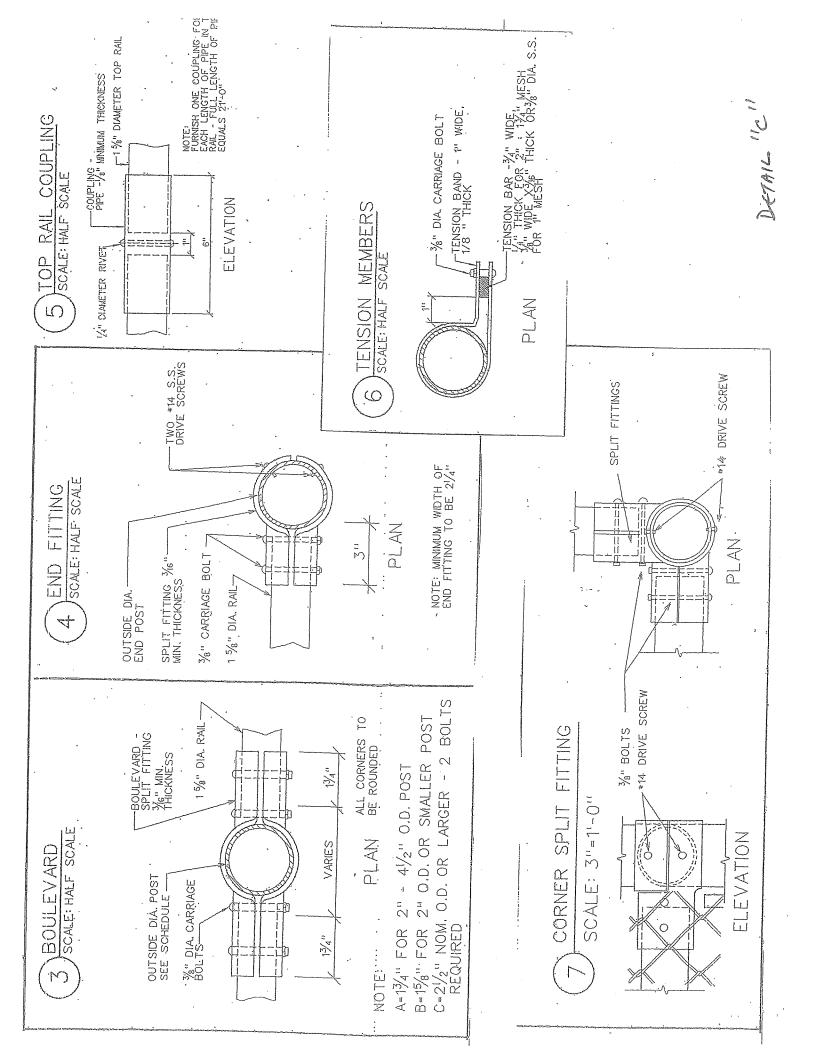
BOLTS WHICH ARE INSTALLED 6'OR LESS ABOVE GRADE SHALL NOT PROTUDE MORE THAN/4" BEYOND THE NUT AFTER TIGHTENING, ALL ROUGH EDGES SHALL BE FILED SMOOTH TO THE SATISFACTION OF THE ENGINEER.

ON FENCES OVER 12 FEET HIGH
WHERE THE TWO WIDTHS OF FABRIC ARE
REQUIRED, THE BOTTOM PIECE SHALL BE
KNUCKLED TOP AND BOTTOM AND THE TO
PIECE KNUCKLED AT BOTTOM AND

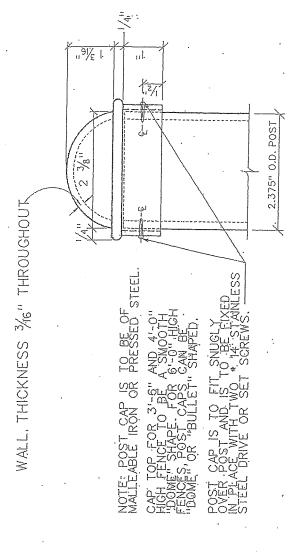
THE TWO PIECES SHALL BE SPLICED IN SUCH A WAY AS TO GIVE A FINISHED NEAT APPEARANCE.

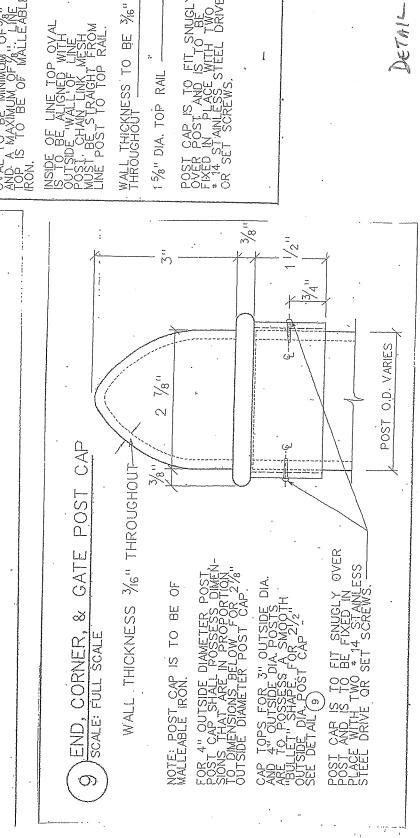
FABRIC TO BE KNUCKLED AT TOP AND BOTTOM RALLS ON FENCES UP TO AND INCLUDING 5'-0" HIGH AND BARBED AT TOP RALL ON FENCES . OVER 5'-0" HIGH.

		48	-							
		VIC :: //	47. 17. 17. 17. 17. 17. 17. 17. 17. 17. 1	/2 UIA.	72" UIA.	1/5" DIA.	1/2" 214	72 010.	1/2" UIA.	/2" DIA.
END POST						2 AT 15/8"	A	-	3 5	3. AT 15/6"
	1,-0,,	2-77#9W	11-8"	116712	7.0	4'-2"	4'-2"	116-17	41-911	46"
LINE POST	14-04	SEE DRAW	11-811	3'-2"		3'-2".	3'-2"	31-211	31-911	4'-2"
	13/8"	15%!!	15%"		1		15/8"			15/8"
	0	0	0	1 - 15/81			1	1	1	3 - 15/8"
	15/8"	15%".	15%11	15%".	-	-	15/8"	15%"	15%"	
	21/2"	21/2"	3"	. 4"		4	4"	4"	4"	41/2"
	60"	6'-0"	8'-0"	1001	10.10	2	10,-01	101-0"	-,0-,01.	10,~.01
	2"	. 2".	21/2"	. 3"	311		3/2"	31/2"	31/2"	41/2"
	34-04: 8	S-0.1.	8,-0"	10,-01	191-011		14.0-0	16'-0".	18,-0"	20'-0"
		2" 6'-0" 21/2" 15%" 0 15%" 0 1-0" 1-0" 0	LINE POST END/CORNER/ END POST END/CORNER/ END POST END P	21. 6'-0" 21/2" 156" 0 156" 1-0"   CINE POST END/CORNER/ END POST	2" 6"-0" 2½" 156" 0 156" 1"-0" 1"-0" 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 60" 21/2" 156" 0 17%" 1'-0" 1'-0" 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21. 6'-0" 21/2" 156" 0 15/4" 1'-0" 1'-0" 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2." 6"-0" 2½" 15%" 0 17%" 1"-0" 0 0 0 0 0 0 2½% 15%" 0 15%" 0 15%" 1"-8" 1"-8" 1"-8" 1.8" 1.8" 1.8" 1.8" 1.8" 1.8" 1.8" 1.	21. 6"-0" 21/2" 15%" 0 17%" 1"-0" 0 0 1/2" 0 0 1/2" 0 0 1/2" 0 0 1/2" 0 0 1/2"	21. 6'-0" 21/2" 15%" 0 15%" 1'-0" 1'-0" 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0









73/le11

SCALET-FULL -SCALE.

POST

11/511

DIA. VARIES

POST

1/5,1